Bulletin of the American Mathematical Society

AUTHOR INDEX

1993, Volumes 28–29

RESEARCH-EXPOSITORY PAPERS

Bergweiler, Walter. *Iteration of meromorphic functions*, **29**, 151
Birman, Joan S. *New points of view in knot theory*, **28**, 253
Chichilnisky, G. *Intersecting families of sets and the topology of cones in economics*, **29**, 189
Howe, Roger E. and Tan, Eng-Chye. *Homogeneous functions on light cones: The infinitesimal structure of some degenerate principal series representations*, **28**, 1
Hunt, Brian R., Sauer, Tim, and Yorke, James A. *Prevalence: An addendum*, **28**, 306
Jaffe, Arthur and Quinn, Frank. *"Theoretical Mathematics": Toward a cultural synthesis of mathematics and theoretical physics*, **29**, 1
Mazur, B. *On the passage from local to global in number theory*, **29**, 14
Quinn, Frank. *See* Jaffe, Arthur
Sauer, Tim. *See* Hunt, Brian R.
Strang, Gilbert. *Wavelet transforms versus Fourier transforms*, **28**, 288
Tadić, Marko. *An external approach to unitary representations*, **28**, 215
Tan, Eng-Chye. *See* Howe, Roger E.
Yorke, James A. *See* Hunt, Brian R.

RESEARCH ANNOUNCEMENTS

Adem, Alejandro. *Representations and K-theory of discrete groups*, **28**, 95
Barlow, Martin T. and Bass, Richard F. *Coupling and Harnack inequalities for Sierpinski carpets*, **29**, 208
Bass, Richard F. *See* Barlow, Martin T.
Becker, Howard and Kechris, Alexander S. *Borel actions of Polish groups*, **28**, 334
Bryant, J., Ferry, S., Mio, W., and Weinberger, S. *Topology of homology manifolds*, **28**, 324
Bryson, Steve, Freedman, Michael H., He, Zheng-Xu, and Wang, Zhenghan. *Möbius invariance of knot energy*, **28**, 99
Calderbank, A. R., Hammons, A. R., Jr., Kumar, P. Vijay, Sloane, N. J. A., and Solé, Patrick. *A linear construction for certain Kerdock and Preparata codes*, **29**, 218
Ferry, S. *See* Bryant, J.
Freedman, Michael H. *See* Bryson, Steve
Gesztesy, F., Holden, H., Simon, B., and Zhao, Z. *Trace formulae and inverse spectral theory for Schrödinger operators*, **29**, 250
Gong, Guihua. *Relative K-cycles and elliptic boundary conditions*, **28**, 104
Griggs, Jerrold R. *On the distribution of sums of residues*, **28**, 329
Hammons, A. R., Jr. *See* Calderbank, A. R.
Hannah, John and O'Meara, K. C. *A new measure of growth for countable-dimensional algebras*, **29**, 223
Harrison, Jenny. *Stokes' theorem for nonsmooth chains*, **29**, 235
He, Zheng-Xu. *See* Bryson, Steve
Heitmann, Raymond C. *A counterexample to the rigidity conjecture for rings*, **29**, 94
Hoffman, David, Wei, Fusheng, and Karcher, Hermann. *Adding handles to the helicoid*, **29**, 77
Holden, H. *See* Gesztesy, F.
Hrushovski, Ehud and Zilber, Boris. *Zariski geometries*, **28**, 315
Janssen, Jeannette C. M. *The Dinitz problem solved for rectangles*, **29**, 243
Jiang, Tan and Yau, Stephen S.-T. *Topological invariance of intersection lattices of arrangements in* $\mathbb{CP}^2$, **29**, 88
Jorgensen, Palle E. T. and Pedersen, Steen. *Harmonic analysis of fractal measures induced by representations of a certain* C^**-algebra*, **29**, 228
Kahn, Jeff and Kalai, Gil. *A counterexample to Borsuk's conjecture*, **29**, 60
Kalai, Gil. *See* Kahn, Jeff
Karcher, Hermann. *See* Hoffman, David
Kechris, Alexander S. *See* Becker, Howard
Kronheimer, P. B. *The genus-minimizing property of algebraic curves*, **29**, 63

AUTHOR INDEX

Kumar, P. Vijay. *See* Calderbank, A. R.
Mio, W. *See* Bryant, J.
O'Meara, K. C. *See* Hannah, John
Pedersen, Steen. *See* Jorgensen, Palle E. T.
Radin, Charles. *Symmetry of tilings of the plane*, **29**, 213
Ramm, A. G. and Zaslavsky, A. I. *Singularities of the Radon transform*, **28**, 109
Riedel, Norbert. *Absence of Cantor spectrum for a class of Schrödinger operators*, **29**, 85
Robertson, Neil, Seymour, P. D., and Thomas, Robin. *Linkless embeddings of graphs in 3-space*, **28**, 84
Rudolph, Lee. *Quasipositivity as an obstruction to sliceness*, **29**, 51
Simon, B. *See* Gesztesy, F.
Seymour, P. D. *See* Robertson, Neil
Sloane, N. J. A. *See* Calderbank, A. R.
Solé, Patrick. *See* Calderbank, A. R.
Stahl, Herbert. *Best uniform rational approximation of x^{α} on* [0, 1], **28**, 116
Thomas, Robin. *See* Robertson, Neil
Wang, Zhenghan. *See* Bryson, Steve
Wasilkowski, G. W. *Integration and approximation of multivariate functions: average case complexity with isotropic Wiener measure*, **28**, 308
Weinberger, S. *See* Bryant, J.
Woźniakowski, H. *Average case complexity of linear multivariate problems*, **29**, 70
Wu, Lang-Fang. *A new result for the porous medium equation derived from the Ricci flow*, **28**, 90
Wei, Fusheng. *See* Hoffman, David
Zaslavsky, A. I. *See* Ramm, A. G.
Zhang, Shuang. *Factorizations of invertible operators and K-theory of C^*-algebras*, **28**, 75
Zhao, Z. *See* Gesztesy, F.
Zilber, Boris. *See* Hrushovski, Ehud

BOOK REVIEWS

Ball, J. A., Gohberg, I., and Rodman, L. *Interpolation of rational matrix functions*, reviewed by M. A. Kaashoek, **28**, 426
Bainov, Drumi and Simeonov, Pavel. *Integral inequalities and applications*, reviewed by C. Corduneanu, **29**, 282
Bartocci, Claudio, Bruzzo, Ugo, and Hernández-Ruipérez, Daniel. *The geometry of supermanifolds*, reviewed by Alice Rogers, **28**, 184
Baues, Hans Joachim. *Combinatorial homotopy and 4-dimensional complexes*, reviewed by John R. Harper, **28**, 408
Benson, D. J. *Representations and cohomology, II: Cohomology of groups and modules*, reviewed by J. E. Humphreys, **29**, 262
Bertin, M. J., Decomps-Guilloux, A., Grandet-Hugot, M., Pathiaux-Delefosse, M., and Schreiber, J. P. *Pisot and Salem numbers*, reviewed by M. Mendes France, **29**, 274
Böttcher, A. and Silbermann, B. *Analysis of Toeplitz operators*, reviewed by Thomas Kriete, **28**, 387
Botvinnik, Boris I. *Manifolds with singularities and the Adams-Novikov spectral sequence*, reviewed by Douglas C. Ravenel, **29**, 290
Brualdi, Richard A. and Ryser, Herbert J. *Combinatorial matrix theory*, reviewed by W. T. Tutte, **28**, 202
Bruzzo, Ugo. *See* Bartocci, Claudio
Chui, Charles K. *An introduction to wavelets*, reviewed by Yves Meyer, **28**, 350
Conway, J. H. and Sloane, N. J. A. *Sphere packings, lattices and groups*, reviewed by C. A. Rogers, **29**, 306
Conway, John. *The theory of subnormal operators*, reviewed by T. W. Gamelin, **28**, 199
Cottle, R. W., Pang, J. S., and Stone, R. E. *The linear complementarity problem*, reviewed by M. C. Ferris, **28**, 169
Daubechies, Ingrid. *Ten lectures on wavelets*, reviewed by Yves Meyer, **28**, 350
Dautray, Robert and Lions, Jacques-Louis. *Mathematical analysis and numerical methods for science and technology, Volume 5. Evolution problems 1*, reviewed by Karen A. Ames, **29**, 117

Decomps-Guilloux, A. *See* Bertin, M. J.
Doerk, Klaus and Hawkes, Trevor. *Finite soluble groups*, reviewed by Cheryl E. Praeger, **29**, 104
Donaldson, S. K. and Kronheimer, P. B. *The geometry of four-manifolds*, reviewed by N. J. Hitchin, **28**, 415
Dong, Guangchang. *Nonlinear partial differential equations of second order*, reviewed by Gary M. Lieberman, **28**, 161
Dovermann, K. H. and Schultz, Reinhard. *Equivariant surgery theories and their periodicity properties*, reviewed by Mel Rothenberg, **28**, 375
Dwork, Bernard. *Generalized hypergeometric functions*, reviewed by Alan Adolphson, **29**, 279
Effinger, Gove W. and Hayes, David R. *Additive number theory of polynomials over a finite field*, reviewed by R. C. Vaughan, **28**, 209
Eklof, Paul C. and Mekler, Alan H. *Almost free modules. Set-theoretic methods*, reviewed by Laszlo Fuchs, **28**, 141
Engelbrecht, Juri. *Introduction to asymmetric solitary waves*, reviewed by John Albert, **28**, 164
Evens, Leonard. *The cohomology of groups*, reviewed by Richard G. Swan, **29**, 113
Falkovich, G. *See* Zakharov, V. E.
Fujishige, S. *Submodular functions and optimization theory*, reviewed by Richard P. McLean and William W. Sharkey, **29**, 98
Gohberg, I. *See* Ball, J. A.
Golub, Gene H. and Ortega, James M. *Scientific computing and differential equations—An introduction to numerical methods*, reviewed by David M. Young, **28**, 397
Grandet-Hugot, M. *See* Bertin, M. J.
Gurarie, David. *Symmetries and Laplacians: Introduction to harmonic analysis, group representations and applications*, reviewed by Audrey Terras, **29**, 144
Hawkes, Trevor. *See* Doerk, Klaus
Hayes, David R. *See* Effinger, Gove W.
Henstock, Ralph. *The general theory of integration*, reviewed by Robert G. Bartle, **29**, 136
Hernández-Ruipérez, Daniel. *See* Bartocci, Claudio
Hinch, E. J. *Perturbation methods*, reviewed by James Murdock, **28**, 418
Hodgson, C. D., Rivin, I., and Smith, W. D. *Erratum*, **28**, 213
Howe, Roger and Tan, Eng-Chye. *Non-abelian harmonic analysis. Applications of* $SL(2, \mathbb{R})$, reviewed by David A. Vogan, Jr., **28**, 176
Ilin, A. M. *Matching of asymptotic expansions of solutions of boundary value problems*, reviewed by Julian D. Cole, **29**, 270
Il'yashenko, Yu. S. *Finiteness theorems for limit cycles*, reviewed by Carmen Chicone, **28**, 123
Jeffries, Clark. *Code recognition and set selection with neural networks*, reviewed by Morris W. Hirsch, **29**, 256
Jensen, Kjeld Knudsen and Thomsen, Klaus. *Elements of KK-theory*, reviewed by Jonathan Rosenberg, **28**, 342
Jost, Jürgen. *Two-dimensional geometric variational problems*, reviewed by Friedrich Sauvigny, **28**, 206
Kaiser, Gerald. *Quantum physics, relativity and complex spacetime*, reviewed by Robert Hermann, **28**, 130
Kharchenko, V. K. *Automorphisms and derivations of associative rings*, reviewed by P. M. Cohn, **28**, 348
Klimek, Maciej. *Pluripotential theory*, reviewed by J. E. Fornaess, **28**, 382
Ko, Ker-I. *Complexity theory of real functions*, reviewed by Marian Boykan Pour-El, **29**, 271
Kostrikin, A. I. *Around Burnside*, reviewed by M. F. Newman and G. E. Wall, **28**, 157
Kronheimer, P. B. *See* Donaldson, S. K.
Kufner, A. *See* Opic, B.
LeVeque, Randall J. *Numerical methods for conservation laws*, reviewed by John C. Strikwerda, **28**, 370
Lions, Jacques-Louis. *See* Dautray, Robert
Lvov, V. S. *See* Zakharov, V. E.
Manin, Yuri I. *Topics in non-commutative geometry*, reviewed by Ivan Penkov, **29**, 106
Marinov, C. A. and Neittaanmäki, P. *Mathematical models in electrical circuits: theory and applications*, reviewed by A. H. Zemanian, **28**, 194
Medvedev, Fyodor A. *Scenes from the history of real functions*, reviewed by Angus E. Taylor, **28**, 360

Meirmanov, Anvarbek. *The Stefan problem*, reviewed by John Ockendon, **28**, 421
Mekler, Alan H. *See* Eklof, Paul C.
Meyer-Nieberg, Peter. *Banach lattices*, reviewed by C. D. Aliprantis, **28**, 190
Mikhlin, Solomon G. *Error analysis in numerical processes*, reviewed by F. Stummel, **28**, 204
Nash, Charles. *Differential topology and quantum field theory*, reviewed by Daniel S. Freed, **28**, 153
Neittaanmäki, P. *See* Marinov, C. A.
Neuman, Frantisek. *Global properties of linear ordinary differential equations*, reviewed by Anton Zettl, **29**, 293
Odifreddi, P. *Classical recursion theory*, reviewed by J. R. Shoenfield, **28**, 182
Opic, B. and Kufner, A. *Hardy-type inequalities*, reviewed by Hans P. Heinig, **28**, 423
Ortega, James M. *See* Golub, Gene H.
Pang, J. S. *See* Cottle, R. W.
Pathiaux-Delefosse, M. *See* Bertin, M. J.
Penner, R. C., with J. L. Harer. *Combinatorics of train tracks*, reviewed by W. Abikoff, **29**, 130
Petkov, V. M. and Stoyanov, L. N. *Geometry of reflecting rays and inverse problems*, reviewed by J. Sjöstrand, **29**, 124
Pohst, M. and Zassenhaus, H. *Algorithmic algebraic number theory*, reviewed by René Schoof, **29**, 111
Popov, V. L. *Groups, generators, syzygies, and orbits in invariant theory*, reviewed by Gerald W. Schwarz, **29**, 299
Ramm, Alexander G. *Multidimensional inverse scattering problems*, reviewed by Reese T. Prosser, **29**, 139
Rivin, I. *See* Hodgson, C. D.
Rodman, L. *See* Ball, J. A.
Ryser, Herbert J. *See* Brualdi, Richard A.
Sakai, Shôichirô. *Operator algebras in dynamical systems*, reviewed by Richard V. Kadison, **28**, 133
Schreiber, J. P. *See* Bertin, M. J.
Schultz, Reinhard. *See* Dovermann, K. H.
Silbermann, B. *See* Böttcher, A.
Simeonov, Pavel. *See* Bainov, Drumi
Sloane, N. J. A. *See* Conway, J. H.
Smith, W. D. *See* Hodgson, C. D.
Stahl, Herbert and Totik, Vilmos. *General orthogonal polynomials*, reviewed by D. S. Lubinsky, **28**, 403
Stone, R. E. *See* Cottle, R. W.
Stoyanov, L. N. *See* Petkov, V. M.
Struwe, Michael. *Variational methods (Applications to nonlinear PDE and Hamiltonian systems)*, reviewed by Jürgen Jost, **28**, 149
Ta-Tsien, Li and Yunmei, Chen. *Global classical solutions for nonlinear evolution equations*, reviewed by Walter A. Strauss, **29**, 265
Tan, Eng-Chye. *See* Howe, Roger
Tempelman, Arkady. *Ergodic theorems for group actions*, reviewed by H. O. Georgii, **29**, 126
Thomsen, Klaus. *See* Jensen, Kjeld Knudsen
Totik, Vilmos. *See* Stahl, Herbert
Tromba, Anthony J. *Teichmüller theory in Riemannian geometry*, reviewed by Michael Wolf, **29**, 285
Varadarajan, V. S. *An introduction to harmonic analysis on semisimple Lie groups*, reviewed by Joseph A. Wolf, **28**, 367
Vaughan-Lee, Michael. *The restricted Burnside problem*, reviewed by M. F. Newman and G. E. Wall, **28**, 157
Voss, Heinz-Jürgen. *Cycles and bridges in graphs*, reviewed by Cecil Rousseau, **28**, 147
Vovsi, Samuel M. *Topics in varieties of group representations*, reviewed by Peter M. Neumann, **29**, 120
Weder, Ricardo. *Spectral and scattering theory for wave propagation in perturbed stratified media*, reviewed by Calvin H. Wilcox, **28**, 137
Weil, André. *André Weil: The apprenticeship of a mathematician*, reviewed by Saunders Mac Lane, **28**, 144

Wesseling, P. *An introduction to multigrid methods*, reviewed by Steve McCormick, **28**, 373
Wiggins, Stephen. *Chaotic transport in dynamical systems*, reviewed by Robert W. Easton, **28**, 398
Yunmei, Chen. *See* Ta-Tsien, Li
Zakharov, V. E., Lvov, V. S., and Falkovich, G. *Kolmogorov spectra of turbulence* I: *Wave turbulence*, reviewed by Alexandre J. Chorin, **29**, 304
Zassenhaus, H. *See* Pohst, M.